

Morpho 648

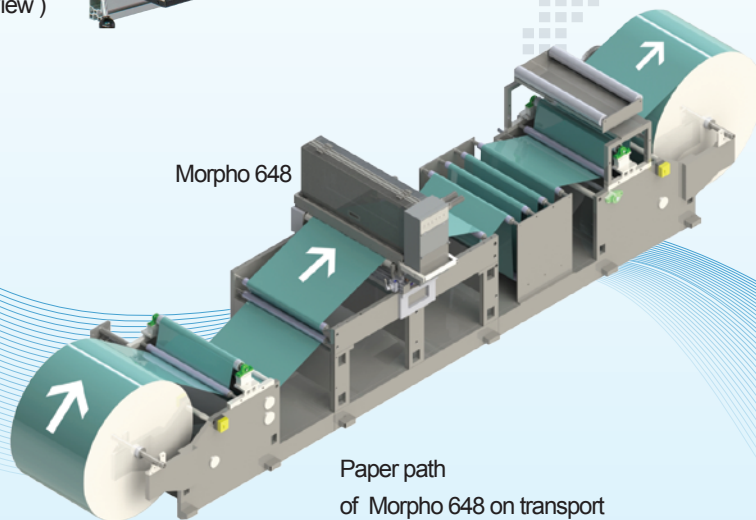
High-Performance Wide-format Inkjet Printing System for VDP

- Maximum print width: 648 mm (25.5 inches)
- Print speed up to 200 m/min. (656 ft/min.)
- Monochrome
- Using Kyocera KJ4 print head
- UV ink, water-based dye/pigment ink, water-based MICR ink, etc.

**600 DPI
HIGH SPEED
RELIABLE & FLEXIBLE**



Morpho 648 (Right Front View)



Morpho 648

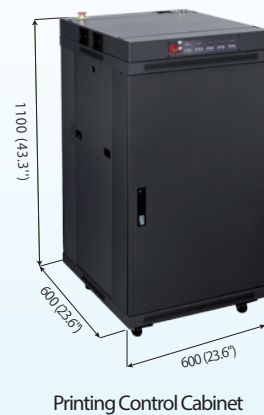
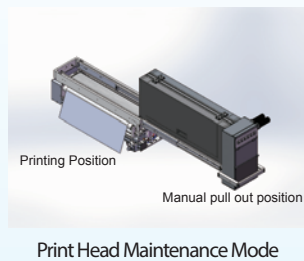
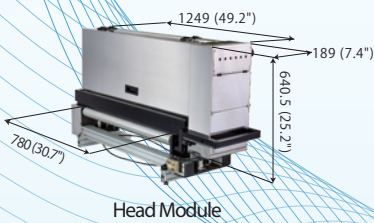
Paper path
of Morpho 648 on transport

Morpho 648 is high-performance wide-format inkjet printing system for single-pass variable data printing (VDP). It can be easily integrated into customer's roll-to-roll production lines. Morpho 648 is suitable for high-speed online/ offline web printing at designated location. The modular design offers greater flexibility to combine Morpho 648 with different technologies, such as media transportation, UV curing, camera inspection for batching and verification.

| | | | | |
|-------------------|-----------------|--|-----------------|-------------------------------------|
| Components | Hardware | ·Data Imaging Board ·Printing Control Cabinet ·Print Head Module | Software | ·MagicPage VDP Software ·PCS Pro |
| | | | | |

RELIABLE PRINTING CONTROL SYSTEM

- Accurate on-demand variable data printing control
- Intelligent ink system to ensure stable and continuous ink supply to print heads
- Constant Pressure System (standard) or Negative Pressure System (optional) ensures stable printing at high speed
- Positive Pressure System for nozzle recovering to keep the print heads in best condition and extend their lifespan
- Field upgradable firmware and system software
- Automatic ink shortage alarming by ink level sensors
- Head temperature setting and real-time monitoring

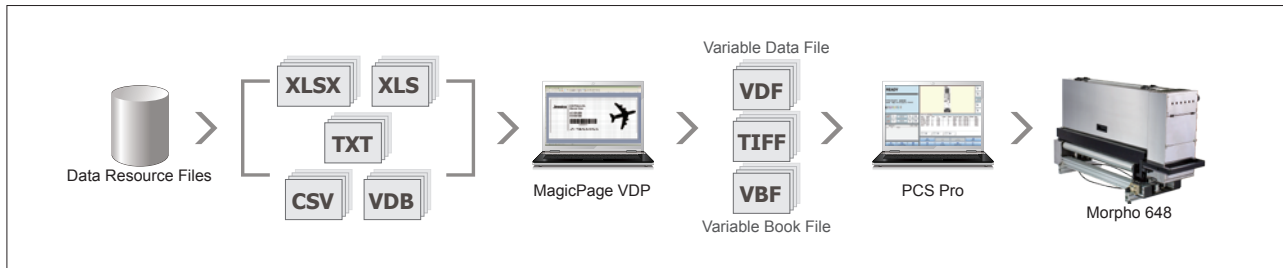


Morpho 648 supports monochrome fonts and barcodes

- Single-line, multi-line, numeric codes, time, and serial numbers
- Character, True Type, and Type-1
- 1-D Barcodes include EAN-13, EAN-8, Code 39, Code 128, Codabar, GS1 DataBar-14, IATA 2 of 5, Interleaved 2 of 5, JAN-13, UPC-A, and POSTNET
- 2-D Barcodes include PDF417 and QR Code
- E-13B and CMC-7 font (MICR standard support available for check printing)

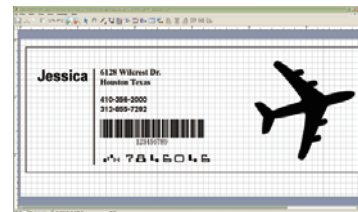
EFFICIENT WORKFLOW

As a comprehensive monochrome VDP inkjet printing system, Morpho 648 works seamlessly with MagicPage and PCS Pro to achieve efficient VDP workflow.

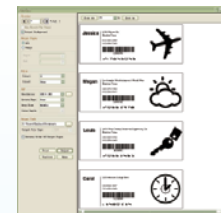


Unique Variable Data Printing Software - MagicPage

- Supports various types of objects, such as text, dates, times, graphics, barcodes, and photo images
- Customized template and layout design
- Extensive field-editing tools for large quantity of variable data and static text
- Supports multiple data source files for variable data, including .CSV, .XLS, .XLSX, .TXT and .VDB files
- Real-time and intuitive RIP output preview
- Embedded barcode, serial number and MICR maps



MagicPage Main Window



MagicPage RIP Window

User-friendly PCS Pro Enhancing Productivity and Efficiency

- Specifically customized for variable data printing of single-pass inkjet printing system
- User-friendly and graphical interface
- Remote printer control, printing parameters setting, and printer status monitoring
- Easy operation and maintenance of the printer
- Embedded test patterns for nozzle check and head alignment

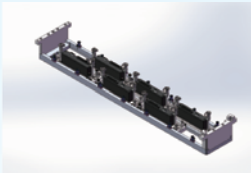


PCS Pro Main Window

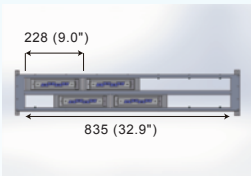
Easily integrated into any existing press as a digital add-on module, turning it into a cost-effective digital press.

FLEXIBLE CONFIGURATIONS WITH MAX. PRINT WIDTH OF 648MM

The arrangement of heads on the head plate can be customized for different configurations, with at most 6 print heads staggered or paralleled in two rows and flexible mechanical adjustment of each head.



Standard Model



No. 432 Model

| Model * | Diagram | Print Width | Numbers of Heads |
|-------------|---------|--------------------------------|------------------|
| Standard | | 648mm | 6 |
| No. 540 | | 540mm | 5 |
| No. 432 | | 432mm | 4 |
| No. 108 x3 | | 108mm (3 groups) | 3 |
| No. 216 x2 | | 216mm (2 groups) | 4 |
| No. 108D x3 | | 108mm (3 groups; Double Speed) | 6 |

* For more configurations, please contact us.

PRINT PRODUCTIVITY

| Print Head Model | | KJ4A/ KJ4B (Standard Model and High Speed Model) | |
|------------------|-------------|---|--|
| | | Standard Speed | Double Speed |
| | | Standard KJ4/ High Speed KJ4 | Standard KJ4/ High Speed KJ4 |
| Water-based Ink | 600x300 dpi | 150/200 <i>m/min.</i> (492/656 <i>ft/min.</i>) | 300/400 <i>m/min.</i> (984/1312 <i>ft/min.</i>) |
| | 600x600 dpi | 75/100 <i>m/min.</i> (246/328 <i>ft/min.</i>) | 150/200 <i>m/min.</i> (492/656 <i>ft/min.</i>) |
| UV Ink | 600x300 dpi | 100/150 <i>m/min.</i> (328/492 <i>ft/min.</i>) | 200/300 <i>m/min.</i> (656/984 <i>ft/min.</i>) |
| | 600x600 dpi | 50/75 <i>m/min.</i> (164/246 <i>ft/min.</i>) | 100/150 <i>m/min.</i> (328/492 <i>ft/min.</i>) |

APPLICATIONS

Envelopes | Business Forms | Security Printing | Labels | Packaging | Tickets | Books | Lottery / Bingo



Amica Systems

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